

Title (en)

Two-color focal plane array sensor arrangement.

Title (de)

Array-Sensor-Anordnung mit einer Fokalebene für zwei Farbbereiche.

Title (fr)

Arrangement de detecteurs en forme de réseau ayant un plan focal pour deux domaine de couleurs.

Publication

EP 0490510 A2 19920617 (EN)

Application

EP 91310825 A 19911125

Priority

US 62495990 A 19901210

Abstract (en)

A two-color focal plane array sensor arrangement (10) operative to simultaneously sense optical energy within first and second wavelength spectra from a scene within a field of view is disclosed herein. The sensor arrangement (10) includes a telescope (12) for collimating the optical energy within the field of view into first and second substantially overlapping beams. The first beam includes optical energy within the first wavelength spectrum, and the second beam includes optical energy within the second wavelength spectrum. A wedged beamsplitter (14) having a pair of non-parallel reflective surfaces (34, 36) redirects optical energy within the first and second beams to a focusing lens (18). The focusing lens projects the redirected optical energy from the first and second beams on first and second regions of a focal plane, respectively. First and second detector arrays (20, 22) positioned in the focal plane generate electrical signals in response to illumination by the projected optical energy. <IMAGE>

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IPC 8 full level

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